

CUMMINS, INC.

EXECUTIVE ORDER A-021-0322 New Engines for Diesel or Incomplete Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-02-003; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and the manufacturer, and any modifications thereof to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the engine and emission control systems produced by the manufacturer are certified as described below for use in diesel or incomplete medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) from 8,501 to 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR			FUEL TYPE (CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas)	STANDARDS & TEST PROCEDURE	EMISSION STANDARD CATEGORY	ON-BOARD DIAGNOSTIC COMPLIANCE					
2002			Diesel	Diesel	LEV						
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			ENGINE MODELS / CODES (rated power in horsepower, hp)								
DDI, OC, TC, CAC, PCM		ISB 235: 8224 (235 hp), 8218 (235 hp), 8225 (235 hp)									
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The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) in grams per brake horsepower-hour (g/bhp-hr) for this engine family for hydrocarbon (HC) or non-methane HC (NMHC), oxides of nitrogen (NOx), or NMHC+NOx, carbon monoxide (CO) [except that "diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Part 86, Subpart A, Section 86.091-23(c)(2)(i) in lieu of testing], particulate matter (PM), and formaldehyde (HCHO) under the "Federal Test Procedure" (FTP) (Title 13, California Code of Regulations, (13 CCR) Section 1956.8), and under the "Euro III Test Procedure" (EURO) in the Settlement Agreement, including a EURO's "Not-tested on conventional test fuel.)

* = not applicable	HC NMHC NOV L									Ox STD	5.0			
			NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
(DIRECT) STD	•	•		•		4.0	3.0		14.4					
AVERAGE STD	•	•	*	•	•				14.4	14,4	0.10	0.10	0.050	0.050
FEL		 • 	*	 							*	•		•
CERT	-	 						_ •	*	•	•		٠	
	<u> </u>	<u> </u>		1		3.4	2.9	•	0.7	0.3	0.07	0.04	0.027	0.048

BE IT FURTHER RESOLVED: That certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: That the listed engine models have been certified to the optional emission standards and test procedures in 13 CCR Section 1956.8(h) applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8,501 to 14,000 pounds and, therefore, shall be subject to 13 CCR Section 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8,501-14,000 pound GVWR).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labels), 1968.1 (on-board diagnostic, full or partial compliance), and 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: That the listed engine models are certified subject to the following conditions: (1) the Settlement Agreement is in effect; (2) the manufacturer is in compliance with all applicable certification requirements of the Settlement Agreement and any modifications thereof; and (3) the manufacturer provides the Air Resources Board with monthly status reports on its progress toward meeting a 3.0 g/bhp-hr NMHC + NOx standard under the EURO for the 2003 model year. This conditional certification shall terminate on the earlier of the date this family is certified for Model Year 2003 or December 31, 2002.

Engines certified under this Executive Order shall conform to all applicable California emission regulations and all requirements under the Settlement Agreement and any modifications thereof.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this ______ day of June 2002.

for Allen Lyons, Chief
Mobile Source Operations Division